



PCT

ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/070,255

DATE: 12/16/2002

TIME: 14:10:08

Input Set : A:\Sequence listing.txt

Output Set: N:\CRF4\12162002\J070255.raw

3 <110> APPLICANT: WALLACH, David
 4 MALININ, Nikolay
 5 SINHA, Indranil
 6 LEU, Stefan
 8 <120> TITLE OF INVENTION: IREN PROTEIN, ITS PREPARATION AND USE
 10 <130> FILE REFERENCE: WALLACH=28
 12 <140> CURRENT APPLICATION NUMBER: US 10/070,255
 C--> 13 <141> **CURRENT FILING DATE: 2002-12-16**
 15 <150> PRIOR APPLICATION NUMBER: PCT/IL00/00517
 16 <151> PRIOR FILING DATE: 2000-08-31
 18 <150> PRIOR APPLICATION NUMBER: IL 131719
 19 <151> PRIOR FILING DATE: 1999-09-02
 21 <160> NUMBER OF SEQ ID NOS: 14
 23 <170> SOFTWARE: PatentIn version 3.1
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 27 <212> TYPE: DNA
 28 <213> ORGANISM: Artificial sequence
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 31 <223> OTHER INFORMATION: synthetic
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 38 <211> LENGTH: 32
 39 <212> TYPE: DNA
 40 <213> ORGANISM: Artificial sequence
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 52 <213> ORGANISM: Homo sapiens
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 63 <211> LENGTH: 1782
 64 <212> TYPE: DNA
 65 <213> ORGANISM: Homo sapiens
 67 <400> SEQUENCE: 4

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72 agggtcacct gtctgtgtgc ccagtttgaa gccgtcctgc agcatggctt gaagaggagt      180
74 cgaggattgg cactcacagc ggcagcgatc aagcaggcag cgggctttgc cagcaaaacc      240
76 gaaacagagc ccgtgttctg gtactacgtg aaggagggtcc tcaacaagca cgagctgcag      300
78 cgcttctact ccctgcgcca catcgctca gacgtgggcc ggggtcgcgc ctggctgcgc      360
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82 aggctgagca ctttttatga agactgggtc tttgtgatgg atgaagaaag gtccagtatg      480
84 ctctctacca tggcagcagg tctgaactcc atactctttg cgattaacat cgacaacaag      540
86 gatttgaacg ggcagagtaa gtttgctccc accgtttcag acctcttaaa ggagtcaacg      600
88 cagaacgtga cctccttgct gaaggagtcc acgcaaggag tgagcagcct gttcagggag      660
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94 aagaaagtga ccaacataat ctcatattgat gatgaggaag atgagcagaa ctctggggac      840
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98 gtcaatatca tgtccgcctt tgaaagcccc ttcgggcta actccaatgg aagtcagagc      960
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122 ttctaaccac acgtgagaac catgtggtgg agaaatggag ggagagagaa atccaacagt     1680
124 tcctgatagt ctcatattgag ctctggatc cagtctttcc tgaagctgtg tttcctctgg     1740
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155 cagaacgtga cctccttgct gaaggagtcc acgcaaggag tgagcagcct gttcagggag      660
157 atcacagcct cctctgccgt ctccatcctc atcaaacctg aacaggagac cgaccccttg      720
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167	agcaactcat	ggaaaattga	ttccctgtct	ttgaacgggg	agtttgggta	ccagaagctt	1020
169	gatgtgaaaa	gcatcgatga	tgaagatgtg	gatgaaaacg	aagatgacgt	gtatggaaac	1080
171	tcatcaggaa	ggaagcacag	gggccactcg	gagtcgcccc	agaagccact	ggaaggggaa	1140
173	acctgcctct	cccagatgca	cagctgggct	ccgctgaagg	tgctgcacaa	tgactccgac	1200
175	atcctcttcc	ctgtcagttg	cgtgggctcc	tacagcccag	cagatgcccc	cctcgggaag	1260
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181	gtgccagagt	ccatgacaat	tagtgaactg	cgccaggcca	ctgtggccat	gatgaacagg	1440
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185	cactcagccg	cgctccggca	agaggtggac	accttgaaaa	ggaaggtggc	tgaacaggag	1560
187	gagcggcagg	gcatgaaggt	ccaggcgctg	gccagagaga	acgaggtgct	caaagtccaa	1620
189	ctgaagaaat	atgtaggagc	tgtccagatg	ctgaaaagag	aaggtcaaac	agctgaagtg	1680
191	ccaaatcttt	ggagtgttga	tggagaagtt	acagtagctg	aacagaagcc	gggagaaatt	1740
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254	cgaggatttg	cactcacagc	ggcagcgatc	aagcaggcag	cgggctttgc	cagcaaaacc	240
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262 aggctgagca ctttttatga agactggtct tttgtgatgg atgaagaaag gtccagtatg 480
264 cttcctacca tggcagcagg tctgaactcc atactctttg cgattaacat cgacaacaag 540
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268 cagaacgtga cctccttgct gaaggagtcc acgcaaggag tgagcagcct gttcagggag 660
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340 ttcaaaacga gaatttcagt gggagactgt ggcaaatgac acagtgttga cactggaatt 2820
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345 <210> SEQ ID NO: 7

346 <211> LENGTH: 541

347 <212> TYPE: PRT

348 <213> ORGANISM: Homo sapiens

350 <400> SEQUENCE: 7

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357          20          25          30
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361          35          40          45
364 Phe Glu Ala Val Leu Gln His Gly Leu Lys Arg Ser Arg Gly Leu Ala
365          50          55          60
368 Leu Thr Ala Ala Ala Ile Lys Gln Ala Ala Gly Phe Ala Ser Lys Thr
369 65          70          75          80
372 Glu Thr Glu Pro Val Phe Trp Tyr Tyr Val Lys Glu Val Leu Asn Lys
373          85          90          95
376 His Glu Leu Gln Arg Phe Tyr Ser Leu Arg His Ile Ala Ser Asp Val
377          100          105          110
380 Gly Arg Gly Arg Ala Trp Leu Arg Cys Ala Leu Asn Glu His Ser Leu
381          115          120          125
384 Glu Arg Tyr Leu His Met Leu Leu Ala Asp Arg Cys Arg Leu Ser Thr
385          130          135          140
388 Phe Tyr Glu Asp Trp Ser Phe Val Met Asp Glu Glu Arg Ser Ser Met
389 145          150          155          160
392 Leu Pro Thr Met Ala Ala Gly Leu Asn Ser Ile Leu Phe Ala Ile Asn
393          165          170          175
396 Ile Asp Asn Lys Asp Leu Asn Gly Gln Ser Lys Phe Ala Pro Thr Val
397          180          185          190
400 Ser Asp Leu Leu Lys Glu Ser Thr Gln Asn Val Thr Ser Leu Leu Lys
401          195          200          205
404 Glu Ser Thr Gln Gly Val Ser Ser Leu Phe Arg Glu Ile Thr Ala Ser
405          210          215          220
408 Ser Ala Val Ser Ile Leu Ile Lys Pro Glu Gln Glu Thr Asp Pro Leu
409 225          230          235          240
412 Pro Val Val Ser Arg Asn Val Ser Ala Asp Ala Lys Cys Lys Lys Glu
413          245          250          255
416 Arg Lys Lys Lys Lys Lys Val Thr Asn Ile Ile Ser Phe Asp Asp Glu
417          260          265          270
420 Glu Asp Glu Gln Asn Ser Gly Asp Val Phe Lys Lys Thr Pro Gly Ala
421          275          280          285
424 Gly Glu Ser Ser Glu Asp Asn Ser Asp Arg Ser Ser Val Asn Ile Met
425          290          295          300
428 Ser Ala Phe Glu Ser Pro Phe Gly Pro Asn Ser Asn Gly Ser Gln Ser
429 305          310          315          320
432 Ser Asn Ser Trp Lys Ile Asp Ser Leu Ser Leu Asn Gly Glu Phe Gly
433          325          330          335
436 Tyr Gln Lys Leu Asp Val Lys Ser Ile Asp Asp Glu Asp Val Asp Glu
437          340          345          350
440 Asn Glu Asp Asp Val Tyr Gly Asn Ser Ser Gly Arg Lys His Arg Gly
441          355          360          365
444 His Ser Glu Ser Pro Glu Lys Pro Leu Glu Gly Asn Thr Cys Leu Ser
445          370          375          380
448 Gln Met His Ser Trp Ala Pro Leu Lys Val Leu His Asn Asp Ser Asp
449 385          390          395          400

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/070,255

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:12; N Pos. 9

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:14

VERIFICATION SUMMARY

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L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:944 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0